IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. 20. (Canceled)
- 21. (Currently Amended) A method to identify outside-in or inside-out signaling integrin mediated signaling by an integrin selected from the group consisting of β 3, β 5, β 6, β 7 and β 8 comprising the step of determining whether the cytoplasmic domain of said the β subunit of an integrin is phosphorylated, wherein the β subunit does not contain an ITAM motif, wherein a phosphorylated cytoplasmic domain of the β subunit of the integrin indicates integrin-mediated outside-in or inside-out signaling.
- 22. (Currently Amended) The method of claim 21 comprising the steps of [[;]]:
 - a) preparing an extract of a cell expressing an integrin of claim 21 β subunit, and
 - b) electrophoresing the extract using SDS electrophoresis, and
 - analyzing said extract the electrophoresed sample to determine whether the tyrosine residues in the cytoplasmic domain of the β subunit of said integrin is are phosphorylated.
- 23. (Currently Amended) The method of claim 22 wherein an anti-phosphotyrosine antibody is used in the analysis step [[b]] c).
- 24. 29. (Canceled)
- 30. (Previously Presented) The method of claim 22 wherein the extract is prepared with a high concentration of SDS.
- 31. (Canceled)
- 32. (Currently Amended) The method of claim 31 22 wherein the electrophoresis is 2D electrophoresis.
- 33. (Previously Presented) The method of claim 22 wherein the cell is a tumor cell.
- 34. (Previously Presented) The method of claim 33 wherein the tumor cell is a carcinoma cell.
- 35. (Previously Presented) The method of claim 22 wherein the cell is a platelet.

- 36. (Previously Presented) The method of claim 22 wherein the cell is an immune system cell.
- 37. (Previously Presented) The method of claim 36 wherein the immune system cell is selected from the group consisting of: a lymphocyte, a leukocyte, a monocyte, a macrophage, a granulocyte, a natural killer cell, and a neutrophil.
- 38. (Previously Presented) The method of claim 22 wherein the cell is an epithelial cell.
- 39. (Previously Presented) The method of claim 38 wherein the epithelial cell is a keratinocyte.
- 40. (Previously Presented) The method of claim 22 wherein the cell is a fibroblast.
- 41. (New) The method of claim 22, wherein the cell expresses a β subunit of an integrin selected from the group consisting of β 3 integrin, β 5 integrin, β 6 integrin, β 7 integrin, and β 8 integrin.
- 42. (New) The method of claim 22, wherein the cytoplasmic domain of the β subunit of the integrin is selected from the group consisting of the cytoplasmic domain of β3 integrin (SEQ ID NO:16), the cytoplasmic domain of β5 integrin (SEQ ID NO:19), the cytoplasmic domain of β6 integrin (SEQ ID NO:17), and the cytoplasmic domain of β7 integrin (SEQ ID NO:21).
- 43. (New) A method to identify outside-in or inside-out integrin mediated signaling comprising the step of determining whether a tyrosine residue in the cytoplasmic domain of β 3 integrin (SEQ ID NO:16) is phosphorylated, wherein a phosphorylated tyrosine residue in the cytoplasmic domain of β 3 integrin indicates integrin-mediated outside-in or inside-out signaling.
- 44. (New) The method of claim 43, comprising the steps of:
 - a) preparing an extract of a cell expressing β 3 integrin in a high concentration of SDS;
 - b) performing 2D electrophoresis on the extract; and
- c) analyzing the electrophoresed extract with an anti-phosphotyrosine antibody to determine whether a tyrosine residue in the cytoplasmic domain of β3 integrin is phosphorylated.